Travelling Merchant:_____

# DATASHEET

Standard: **V756-B314-25.00MHz**

P/N: _____

| Plot | | | The Label |
|---|---|---|---|
| Drew | Audited | Approved | |
| Amway.wei | Tina.Tang | James.Liu | |
| Date: 2013.01.18 | | | Stamp, please! Thanks! |


## Guangdong Dapu Telecom Technology Co.,Ltd

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# Table of amendment

| Version | Revision contents | Prepared by | Revised date |
|---|---|---|---|
| 1.0 | The first issued | Amway | 2012.06.06 |
| 1.1 | "Mechanical Structure" changed | Amway | 2012.07.30 |
| 1.2 | "Note4" add | Amway | 2013.01.18 |
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## 1. Electrical Parameters

| **MODEL： V756-B314-25.00MHz** | | | | | | |
|---|---|---|---|---|---|---|
| Item | Description | Parameters | | | Unit | Test Condition |
| | | Min. | Typ. | Max. | | |
| Output | Frequency | | 25.00 | | MHz | |
| | Output Waveform | | HCMOS | | | |
| | Output Low Voltage | | | 0.33 | V | $V_{cc}$=3.3V, $O_{load}$=15 pF |
| | Output High Voltage | 2.97 | | | V | $V_{cc}$=3.3V, $O_{load}$=15 pF |
| | Duty Cycle | 45 | 50 | 55 | % | @50% |
| | Rise / Fall Time （10%~90%） | | | 5 | ns | @25℃ |
| | Load | | 15 | | pF | |
| Frequency Stabilities | Frequency Tolerance vs. Operating Temperature Range | -30 | | +30 | $\times 10^{-6}$ | $T_A$ varied from-40℃ to 85℃, measurement referenced to frequency observed with $T_A$ = 25℃, $V_{cc}$=3.3V, $V_c$=1.65V, $O_{load}$=15pF, temperature variable speed less than 2℃per minute. |
| | Initial Frequency Tolerance | -15 | | +15 | $\times 10^{-6}$ | Measurement referenced to frequency observed with $T_A$=25℃,$V_{cc}$=3.3V, $V_c$=1.65V within 30 days after ex-works. |
| | Frequency Tolerance vs. Supply Voltage | -5 | | +5 | $\times 10^{-6}$ | measurement referenced to frequency observed $T_A$=25℃, $V_{cc}$ varied from 3.13V to 3.47V, $V_c$=1.65V and $O_{Load}$= 15pF . |
| | Frequency Tolerance vs. Load | -3 | | +3 | $\times 10^{-6}$ | 5% load change measurement referenced to frequency observed with $T_A$=25℃, $V_{cc}$=3.3V, $V_c$=1.65V, $O_{Load}$= 15pF |
| | Aging Tolerance 1 Year | -5 | | +5 | $\times 10^{-6}$ | $T_A$=25℃, $V_{cc}$=3.3V, $V_c$=1.65V and after 1h of operation. |
| Power Supply | Current Consumption | | | 20 | mA | @25℃, $V_{cc}$=3.3V, $V_c$=1.65V, $O_{load}$=15pF. |
| | Supply Voltage | 3.13 | 3.3 | 3.47 | V | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Voltage Control Characteristics | Frequency Tuning Range | -200 | | -75 | $\times 10^{-6}$ | $V_c$=0V. measurement referenced to $V_c$=1.65V |
| | | -15 | | +15 | $\times 10^{-6}$ | $V_c$=1.65V. measurement referenced to exactly 25.00MHz |
| | | +75 | | +200 | $\times 10^{-6}$ | $V_c$=3.3V. measurement referenced to $V_c$=1.65V |
| | Linearity | | | 10 | % | |
| | Slope | Positive | | | | |
| | Input Impedance | 1 | | | MΩ | |
| Phase Noise | Phase Noise | | -70 | -65 | dBc/Hz | 10Hz |
| | | | -100 | -95 | | 100Hz |
| | | | -130 | -125 | | 1KHz |
| | | | -145 | -140 | | 10KHz |
| | | | -150 | -145 | | 100KHz |
| | | | -155 | -150 | | 1MHz |
| Environmental Conditions | Operable Temperature | -40 | | +85 | ℃ | |
| | Storage Temperature | -55 | | +105 | ℃ | |
| | ESD Level | Human Body Model, class2: 2000V to 4000V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | | Machine Model, class B: 200V to 400V; ANSI/ESDA/JEDEC JS-001-2010. | | | | |
| | Moisture Sensitivity Level | Level 2. | | | | |
| | Vibration | Test Condition: 0.75mm; acceleration:10g;10Hz～2000Hz, one cycle per 30 min, test 2 hour. (3 times for each 3 directions X ,Y , Z) .IEC 68-2-06 Test Fc. | | | | |
| | Shock | 100g; 6ms; half sine wave (3 times for each 3 directions X ,Y, Z ),IEC 68-2-27 Test Ea/Severity 50A. | | | | |

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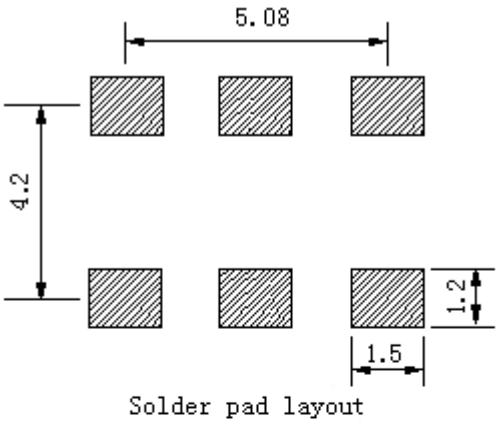
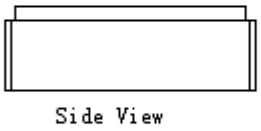
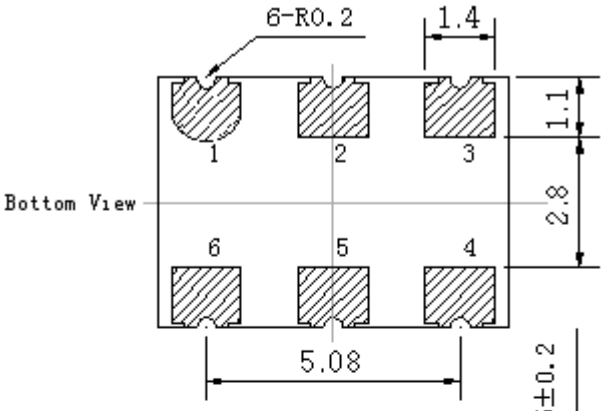
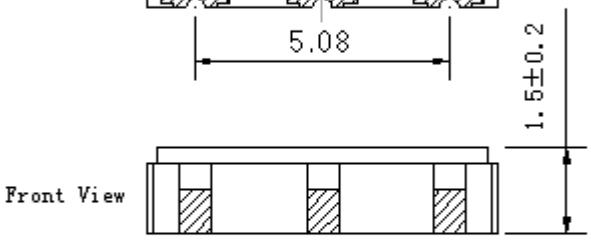
## 2. Mechanical Structure(mm)



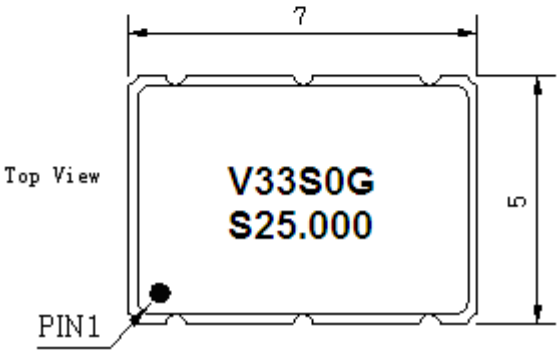




PIN FUNCTION

| | |
|---|---|
| 1 | VC |
| 2 | E/D |
| 3 | GND |
| 4 | OUTPUT |
| 5 | NC |
| 6 | Vcc |




**Note1:** Tolerance ±0.1mm without mark

**Note2:** Referential Weight 0.2g

**Note3:** Disable: Vil≤Vcc-2.0V

Enable: Vih≥Vcc-1.025V

| E/D | OUT |
|---|---|
| high level, open | data |
| low level | no data |

**Note4:** MARK : V 33 S 0 G

0 represent for the year of 2010,1 represent for the year of 2011，etc.

G represent for the month , and the corresponding relationship is as follows:

MONTH: 1 2 3 4 5 6 7 8 9 10 11 12

CODE : A B C D E F G H I J K L

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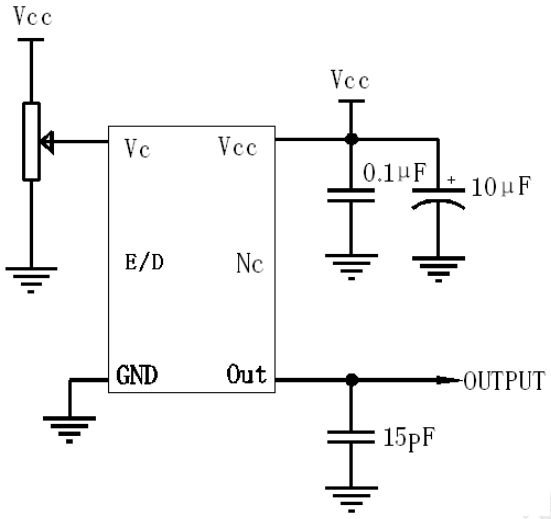
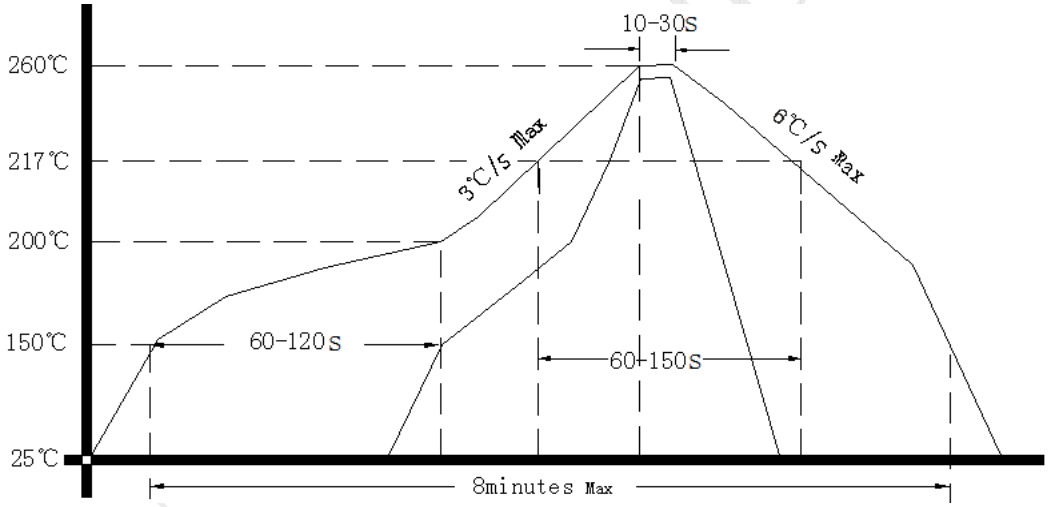
## 3. Test circuit




## 4. Reflow Soldering Curve (RoHS)




## 5. Package: Tape & Reel (mm)